

To the Claims:

Claim 1. (currently amended) A color correcting circuit coupled to a video source and a display panel, comprising:

a video look-up circuit, coupled to the video source, wherein an N bit video data from the video source is modulated into a N+M bit video data according to a color look-up table, wherein the N+M bit video data comprises N+M bit video data for a color red, green, or blue;

a N+M bit data driving circuit, coupled to the video look-up circuit for receiving and outputting the N+M bit video data; and

a N+M bit data gamma voltage generating circuit, coupled to the N+M bit data driving circuit for receiving the N+M bit video data and providing the voltages in every step according to the color of the N+M bit video data and the values found in a gamma color correction table,

wherein, M is a natural number.

Claim 2. (original) The color correction circuit of claim 1, wherein the N+M bit data gamma voltage generating circuit comprises a gamma correction circuit.

Claims 3-5. (cancelled)

Claim 6. (original) The color correction circuit of claim 1, wherein the display panel displays the corrected N+M bit video data.

Claim 7. (currently amended) A method of correcting the colors of a display, comprising the steps of:

providing an N bit video data;

modulating the N bit video data into a N+M bit video data according to a color look-up table, wherein the N+M bit video data comprises N+M bit video data for a color red, green or blue; and

providing the voltages of every step for the N+M bit video data according to the color of the N+M bit video data and the values found from a gamma color correction table,

wherein, M is a natural number.

Claims 8-10. (cancelled)